Vermont Mental Health Performance Indicator Project

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MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project
            Advisory Group and Interested Parties

FROM: John Pandiani and   Monica Simon
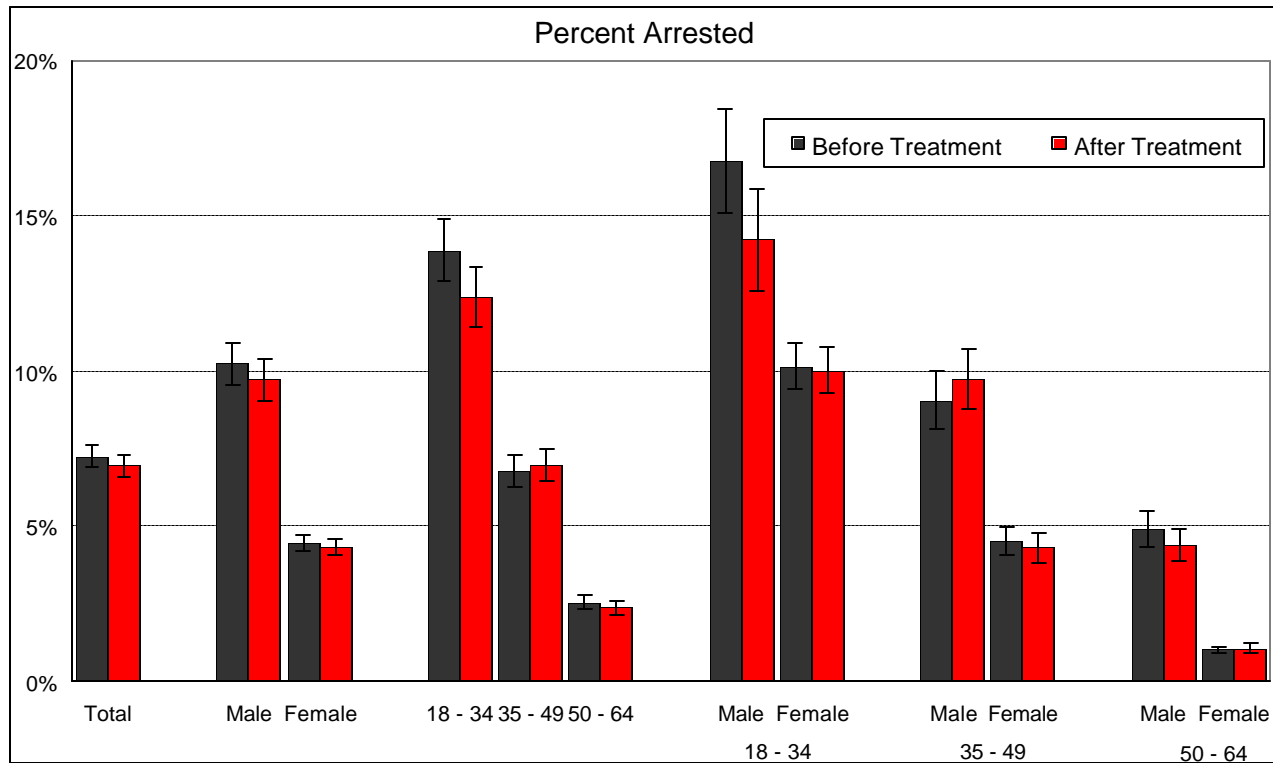
DATE: May 30, 2003

RE: Arrests Before and After Services from CRT programs

The attached graph and table compare three-year average arrest rates before and after treatment for adults who were served by Community Rehabilitation and Treatment (CRT) programs for adults with serious mental illness in Vermont during FY1999 through FY2001. Results are presented for age and gender categories statewide, and for each of Vermont's ten community mental health service areas.   This analysis replicates our previously published reports on arrest rates before and after treatment in Substance Abuse programs (http://www.state.vt.us/dmh/Data/PIPs/2002/pip081602.pdf) and arrest rates before and after treatment in Adult Mental Health Outpatient programs (http://www.state.vt.us/dmh/Data/PIPs/2003/pip052303.pdf).   In each case, analyses involved measuring caseload overlap between a behavioral healthcare data set and a criminal justice data set. The criminal justice data set used in each analysis was extracted from the statewide Incident Based Reporting System arrest database maintained by the Vermont Department of Public Safety. The substance abuse treatment database used in the earlier analysis was extracted from Vermont's federally mandated Treatment Episode Data Set (TEDS). The mental health treatment data used in this analysis was extracted from Monthly Service Report data files submitted to DDMHS by designated community mental health service providers. Because these data sets do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of people who appeared in both the arrest database and the mental health database.

As you will see, there was a small but statistically significant decrease in arrest rates for young adults (aged 18-34) served by CRT programs during the study period, from 13.9% during the year before the treatment year to 12.4% during the year after the treatment year. The post-treatment arrest rate for young adult CRT clients was 89% of the pre-treatment rate. There was, however, no significant change in arrest rates for the CRT population as a whole, for either male of female clients, or for adults in the 35-49 or 50-64 age groups. There were statistically significant decreases in arrest rates in four of the state's ten regions: Arrest rates for CRT clients during the prior year were similar to those for clients of Adult Mental Health Outpatient programs but CRT clients experienced less reduction in levels of criminal justice involvement than Adult Outpatient clients during the study period. Both mental health programs had less prior criminal justice involvement and less reduction in criminal justice involvement than clients of Substance Abuse programs.

As always, we look forward to your questions, comments and suggestions for further analysis to pip@ddmhs.state.vt.us or 802-241-2638.

Community Rehabilitation and Treatment Clients
In Trouble with the Law Before and After Treatment
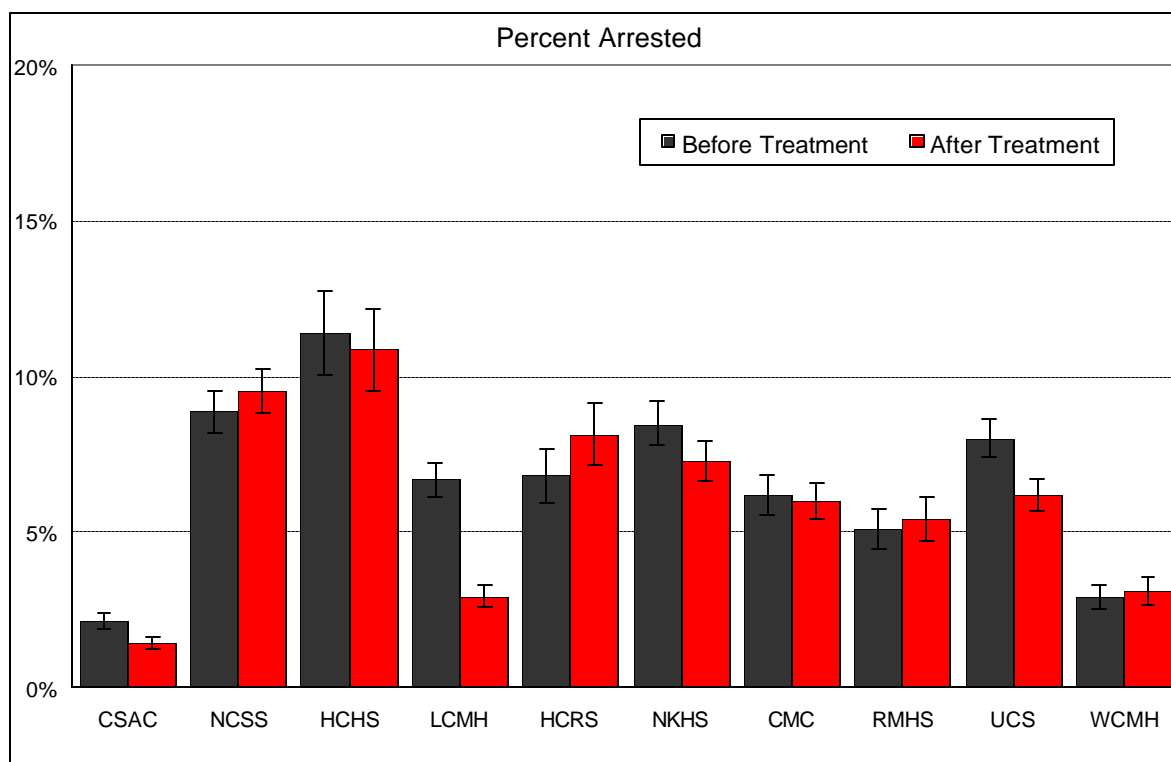## By Age and Gender, Vermont: FY1999 - FY2001

Percent Arrested

	Average Number Served	Percent Arrested		Performance Ratio
		Before Treatment	After Treatment	
Total	2,775 + 6	7.2% + 0.3%	6.9% + 0.3%	0.96 + 0.07
Male	1,338 + 4	10.2% + 0.7%	9.7% + 0.7%	0.95 + 0.09
Female	1,437 + 4	4.5% + 0.2%	4.3% + 0.3%	0.97 + 0.08
18 - 34	667 ± 3	13.9% ± 1.0%	12.4% ± 1.0%	0.89 ± 0.10 *
35 - 49	1,296 + 4	6.8% + 0.5%	7.0% + 0.5%	1.03 + 0.11
50 - 64	811 + 3	2.5% + 0.2%	2.4% + 0.2%	0.93 + 0.12
18 - 34 Male	377 ± 2	16.8% ± 1.7%	14.2% ± 1.6%	0.85 ± 0.13 *
Female	290 ± 2	10.1% ± 0.7%	10.0% ± 0.7%	0.99 ± 0.10
35 - 49 Male	640 + 3	9.1% + 0.9%	9.7% + 1.0%	1.07 + 0.15
Female	657 + 3	4.5% + 0.4%	4.3% + 0.5%	0.95 + 0.14
50 - 64 Male	321 + 2	4.9% + 0.6%	4.4% + 0.5%	0.89 + 0.15
Female	490 ± 2	1.0% ± 0.1%	1.1% ± 0.1%	1.05 ± 0.17

*Indicates difference is statistically significantly different at the 0.05 level of significance.

Analysis is based on data provided to DDMHS by community mental health centers and the Department of Public Safety.

Because these databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of individuals shared across data sets (with 95% confidence intervals).

Community Rehabilitation and Treatment Clients
In Trouble with the Law Before and After Treatment
By Clinic, Vermont: FY1999 - FY2001

Percent Arrested

■ Before Treatment   ■ After Treatment

	Average Number Served	Percent Arrested		Performance Ratio
		Before Treatment	After Treatment	
Total	2,775 ± 6	7.2% ± 0.3%	6.9% ± 0.3%	0.96 ± 0.07
CSAC	140 ± 1	2.1% ± 0.3%	1.4% ± 0.2%	0.67 ± 0.12 *
NCSS	190 ± 1	8.9% ± 0.7%	9.5% ± 0.7%	1.07 ± 0.11
HCHS	605 ± 3	11.4% ± 1.3%	10.9% ± 1.3%	0.95 ± 0.16
LCMH	123 ± 1	6.7% ± 0.5%	2.9% ± 0.4%	0.44 ± 0.07 *
HCRS	384 ± 2	6.8% ± 0.9%	8.1% ± 1.0%	1.19 ± 0.21
NKHS	362 ± 2	8.5% ± 0.7%	7.3% ± 0.6%	0.86 ± 0.10 *
CMC	125 ± 1	6.2% ± 0.6%	6.0% ± 0.6%	0.96 ± 0.13
RMHS	284 ± 2	5.1% ± 0.6%	5.4% ± 0.7%	1.06 ± 0.19
UCS	174 + 1	8.0% + 0.6%	6.2% + 0.5%	0.77 + 0.09 *
WCMH	386 + 2	2.9% + 0.4%	3.1% + 0.5%	1.07 + 0.22

*Indicates statistically significantly different at the 0.05 level of significance.
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determine the number of individuals shared across data sets (with 95% confidence intervals).